



Company: Bonneville Power Administration

Name:

Date: 2/8/2007

Selection: FPI

Pump:

Size: AF36-30-505
 Type: AXIAL FLOW
 Synch speed: 515 rpm
 Curve:
 Specific Speeds:
 Dimensions:
 Speed: 505 rpm
 Line: A (36)
 Impeller:
 Ns: ---
 Nss: ---
 Suction: --- in
 Discharge: --- in

Search Criteria:

Flow: --- US gpm
 Head: --- ft

Fluid:

Water
 Density: 62.25 lb/ft³
 Viscosity: 1.105 cP
 NPSHa: --- ft
 Temperature: 60 °F
 Vapor pressure: 0.2563 psi a
 Atm pressure: 14.7 psi a

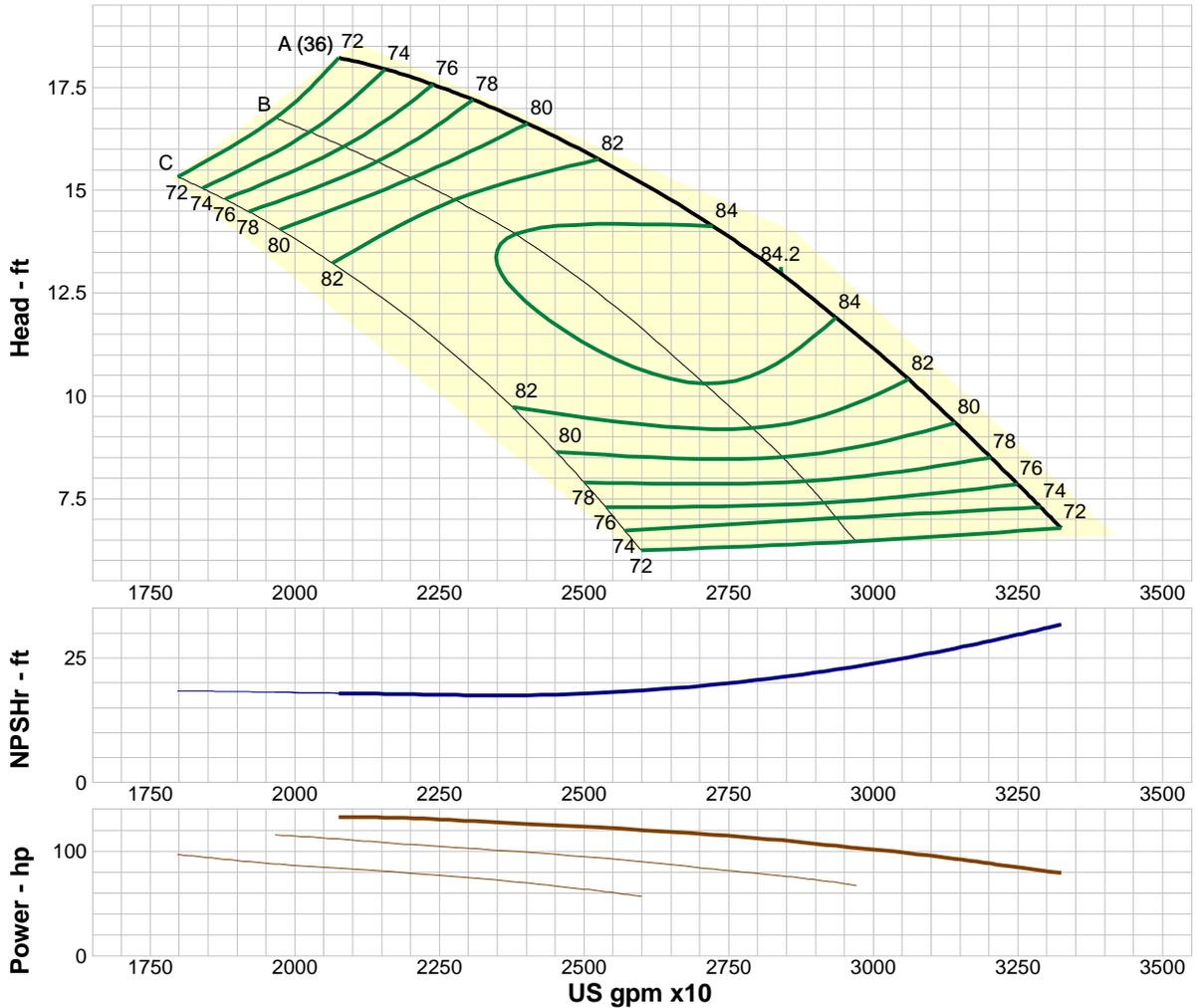
Motor:

Standard: NEMA --- hp
 Enclosure: TEFC Speed: ---
 Frame: ---
 Sizing criteria: Max Power on Design Curve

Pump Limits:

Temperature: --- °F
 Pressure: --- psi g
 Sphere size: --- in
 Power: --- hp
 Eye area: --- in²

---- Data Point ----	
Flow:	28401 US gpm
Head:	13 ft
Eff:	84.2%
Power:	110 hp
NPSHr:	21.2 ft
---- Design Curve ----	
Shutoff head:	17.6 ft
Shutoff dP:	7.6 psi
Min flow:	--- US gpm
BEP:	84.2% @ 28401 US gpm
NOL power:	133 hp @ 20746 US gpm
-- Max Curve --	
Max power:	133 hp @ 20746 US gpm



The performance is guaranteed for the design point only when pumping clean water at 85 degrees F. Consult factory for certified performance curve.

Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
31906	505	8.66	78.4	89	28.2
26588	505	14.7	83.4	118	19.1
21270	505	18	73.3	132	17.8
15953	505	---	---	---	---
10635	505	---	---	---	---